



# TF.Data

Mì AI



# Train model problems

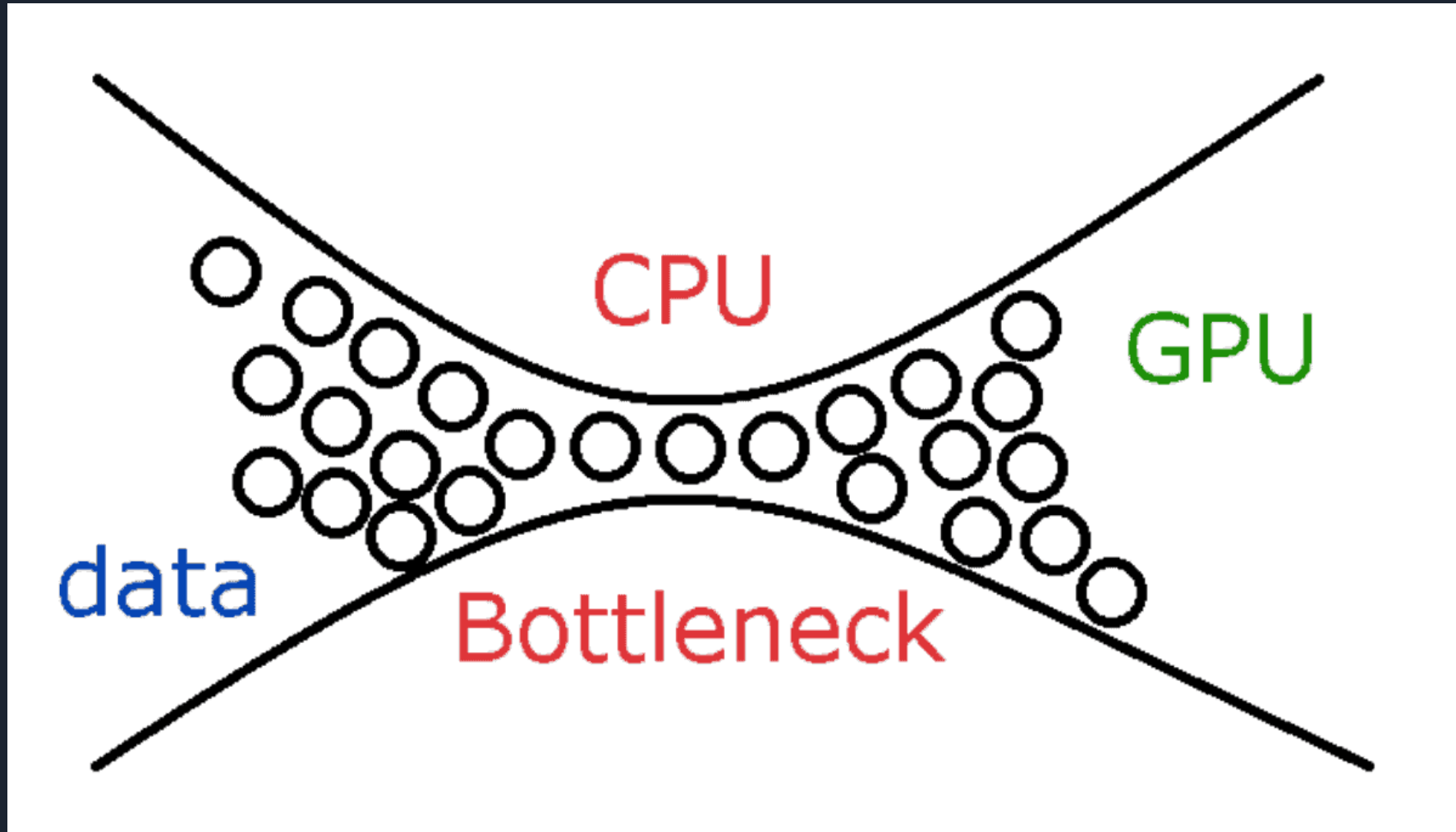


# Train model problems

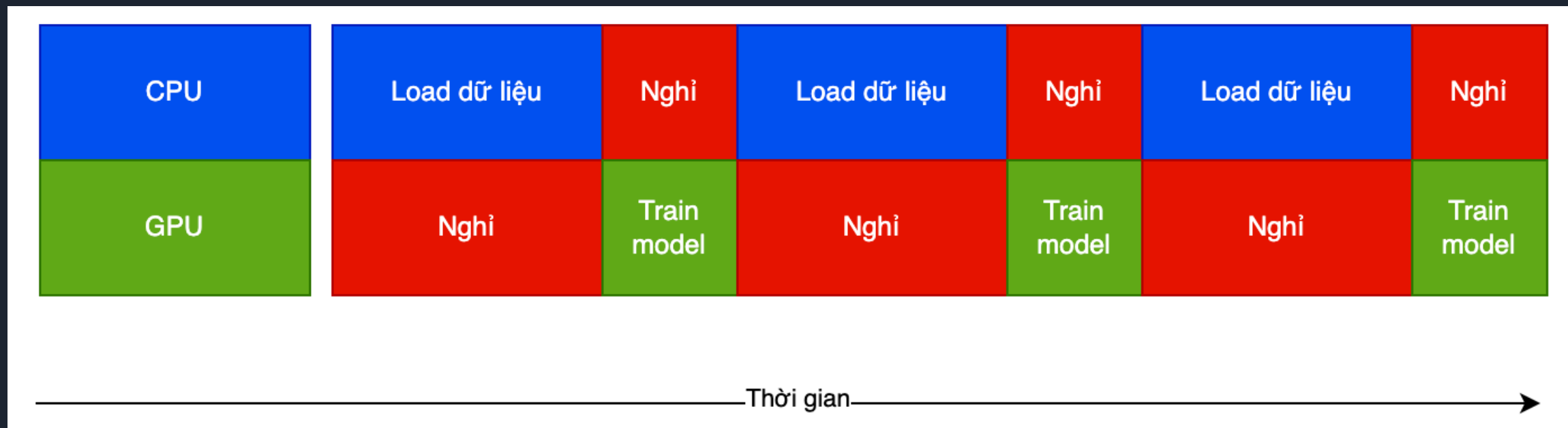
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Fri Nov 5 12:11:46 2021
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| NVIDIA-SMI 455.38                Driver Version: 455.38      CUDA Version: 11.1     |
+-----+-----+-----+-----+-----+-----+
| GPU  Name                Persistence-M| Bus-Id        Disp.A | Volatile Uncorr. ECC |
| Fan  Temp  Perf    Pwr:Usage/Cap|      Memory-Usage | GPU-Util  Compute M. |
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|  0  TITAN Xp              Off        | 00000000:00:03:0 Off |                    |
| 29%   50C    P2      70W / 250W | 11711MiB / 12195MiB | 28%      Default |
|                               |                      | N/A      N/A     |
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| Processes: |
| GPU   GI    CI          PID    Type   Process name                  GPU Memory |
|          ID    ID                                   |          Usage |
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|  0     N/A  N/A         48601      C   python3                      11709MiB |
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CSDN-@_刘文凯_
```

# Reason

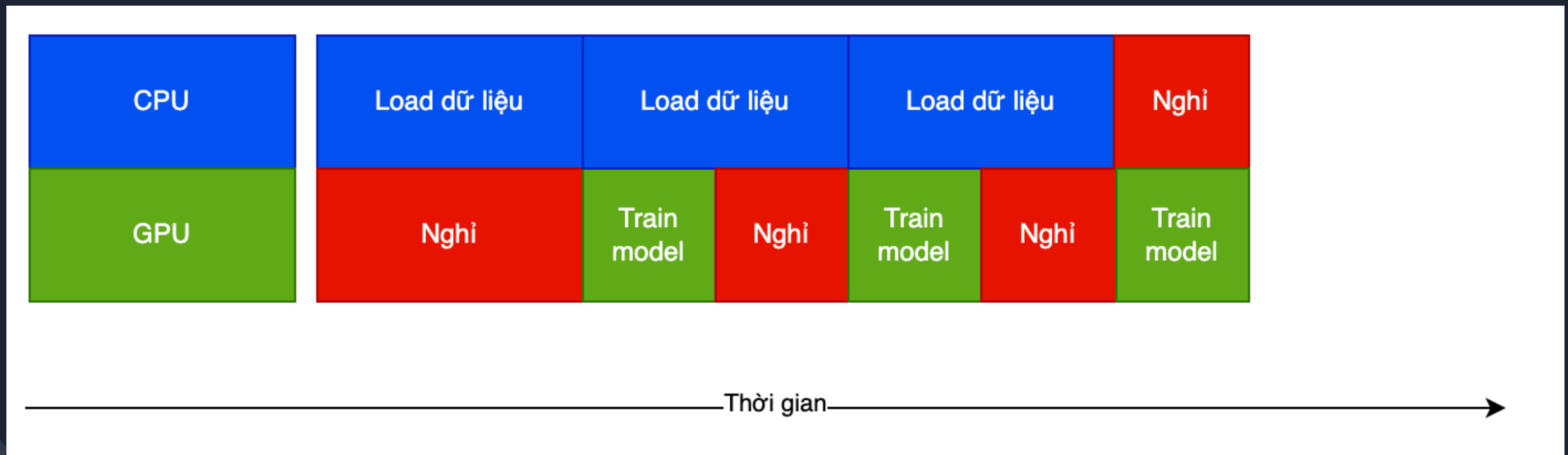


# Reason

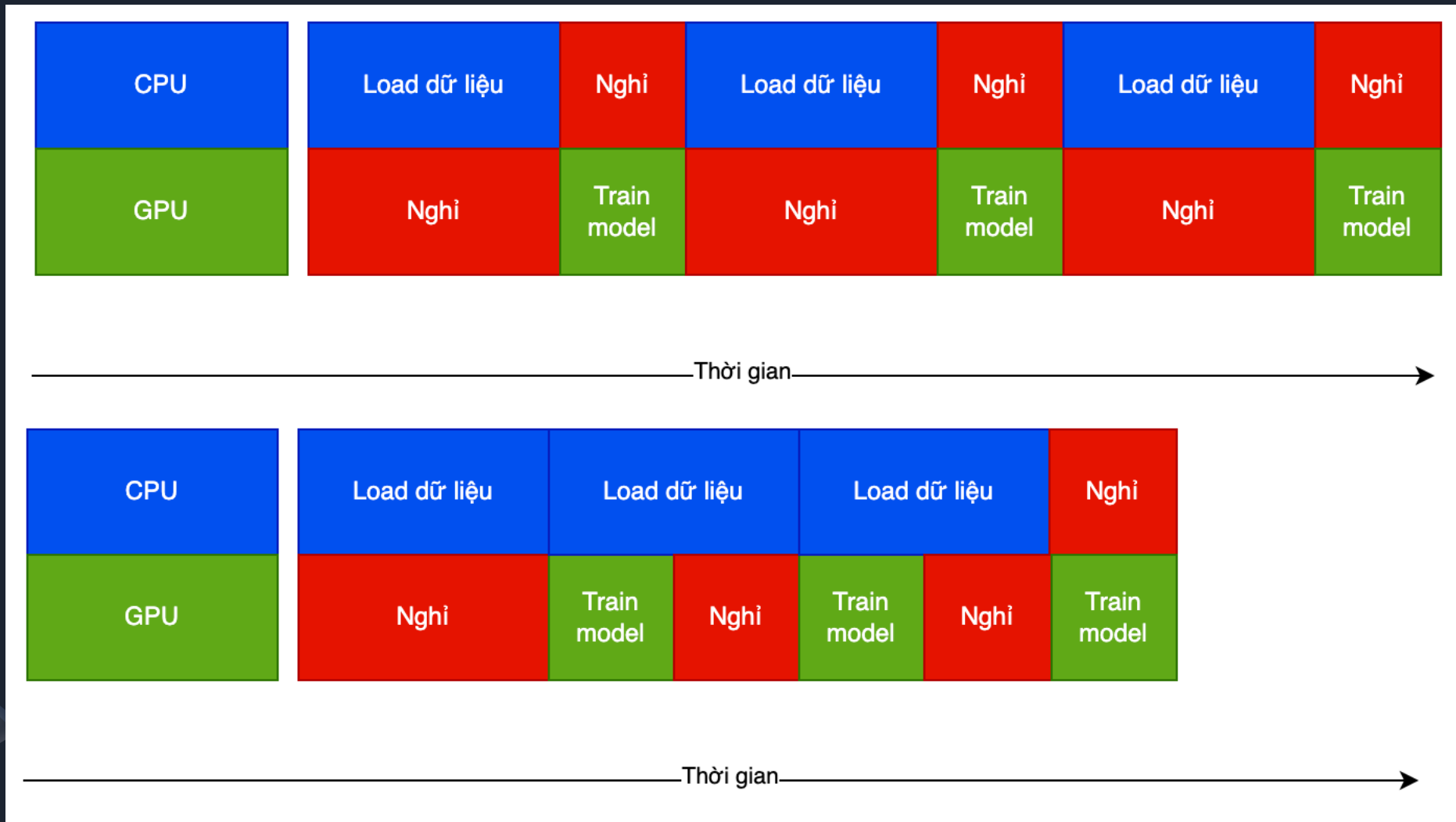




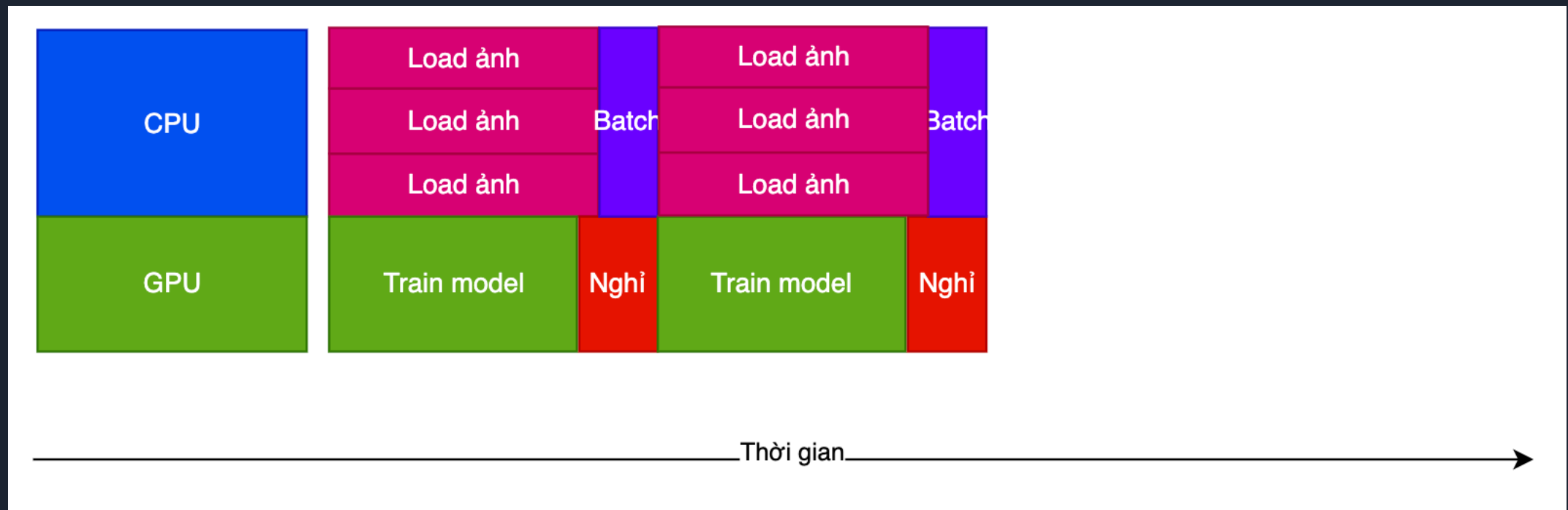
# Solutions



# Solutions



# Solutions





# TF.data

The tf.data API enables you to build complex input pipelines from simple, reusable pieces.

For example, the pipeline for an image model might aggregate data from files in a distributed file system, apply random perturbations to each image, and merge randomly selected images into a batch for training.

The pipeline for a text model might involve extracting symbols from raw text data, converting them to embedding identifiers with a lookup table, and batching together sequences of different lengths.

The tf.data API makes it possible to handle large amounts of data, read from different data formats, and perform complex transformations.

# TF.data

- `tf.data.Dataset.from_tensor_slices`
- `tf.data.Dataset.zip`
- `tf.data.TFRecordDataset`
- `tf.data.TextLineDataset`



<https://www.tensorflow.org/guide/data>

# Handons

- Colab
- Laptop

